

(Predominant source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$179,299

Total Intended Award Amount: \$870,025

Total Approved Cost Share or Matching Amount: \$0

Total Amount Obligated to Date: \$179,299

Expenditure Limitation: Not Applicable

Contingent on the availability of funds and scientific progress of the project, NSF expects to continue support at approximately the following level:

Fiscal Year	Increment Amount
2024	\$173,719
2025	\$178,569
2026	\$166,897
2027	\$171,541

PROJECT PERSONNEL

Principal Investigator:

[REDACTED]

Email:

[REDACTED]

Organization: PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE

NSF CONTACT INFORMATION

Managing Grants Official
(Primary Contact)

Name: Pamela V. Conyers

Email: pconyers@nsf.gov

Phone: (703) 292-5329

Awarding Official

Name: Pamela V. Conyers

Email: pconyers@nsf.gov

Managing Program Officer

Name: William Wester

Email: wwester@nsf.gov

Phone: (703) 292-4677

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 01/30/2023, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 22-586 Faculty Early Career Development Program.

BUDGET

A. Senior Personnel	
Senior Personnel Count	1.00
Senior Personnel Calendar Months	0.50
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$6,734
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	2.00
Graduate Students Amount	\$64,840
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$71,574
C. Fringe Benefits	\$1,488
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$73,062
D. Equipment	\$0

E. Travel	
Domestic	\$5,036
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$1,500
Participant Support Costs Subsistence	\$2,070
Participant Support Costs Other	\$28,533
Total Number of Participants	10.00
<i>Total Participant Costs (F)</i>	\$32,103
G. Other Direct Costs	
Materials Supplies	\$9,000
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$0
<i>Total Other Direct Costs (G)</i>	\$9,000
H. Total Direct Costs (A Through G)	\$119,201
I. Indirect Costs*	\$60,098
J. Total Direct and Indirect Costs (H + I)	\$179,299
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$179,299
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

From: htakai@nsf.gov
Reply To: htakai@nsf.gov
To: [REDACTED]
CC: htakai@nsf.gov; kpigford@nsf.gov
Subject: NSF Approval of Continuing Grant Increment - Award ID - 2239795
Status: Sent on Tue 05/13/2025 02:54 PM

Notification of NSF Approval of Additional Funding Support

Award No. 2239795
Amendment No. 003
Division Identifier: PHY
Release Date: 05/13/2025
Released By: Helio Takai
Amount: \$178,569
Award End Date: 04/30/2028

As authorized by the original award, the National Science Foundation hereby releases \$178,569 for additional support of the award referenced above. The award, with this amendment, now totals \$557,803 and will end on 04/30/2028 .

The attached budget indicates the amounts, by categories, on which NSF has based its continued support.

This award is subject to the terms and conditions referenced in the original award notice. The most current version of the terms and conditions can be accessed at: https://www.nsf.gov/awards/managing/award_conditions.jsp?org_NSF.

This award is subject to the Uniform Administrative Requirements, Cost Principles and Audit Requirements for Federal Awards (Uniform Guidance). NSF's implementation of the Uniform Guidance is contained in the Grant Conditions referenced in this award.

Any technical or programmatic questions regarding this notification should be addressed to the cognizant NSF Program Officer: Helio Takai , htakai@nsf.gov , (703)292-4565 .

Any award specific questions of an administrative or financial nature should be addressed to the grants official at <http://www.nsf.gov/bfa/dga/docs/liaison.pdf> . The cognizant grants official can be identified by associating the three-letter division identifier referenced above with the grants official for that division on the liaison website.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2241885

Managing Division Abbreviation: SES

Amendment Number: 000

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE 5TH FL CAMBRIDGE, MA 02138-5369

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 05/15/2023

Amendment Number: 000

Proposal Number: 2241885

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above as modified by revised budget dated 04/12/2023.

AWARD INFORMATION

Award Number (FAIN): 2241885

Award Instrument: Standard Grant

Award Date: 05/15/2023

Award Period of Performance: Start Date: 06/01/2023 End Date: 05/31/2025

Project Title: Collaborative Research: State Health, Institutions, and Politics Survey (SHIPS)

Managing Division Abbreviation: SES

Research and Development Award: Yes

Funding Opportunity: PD 19-120Y Accountable Institutions and Behavior

Assistance Listing Number(s) and Name(s): 47.075 Social, Behavioral, and Economic Sciences
(Predominant source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$332,169

Total Intended Award Amount: \$332,169
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$332,169
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator: [REDACTED]	Email: [REDACTED]	Organization: PRESIDENT AND FELLOWS OF HARVARD COLLEGE
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COLLABORATIVE INFORMATION

Proposal ID	Lead	PI Name	Organization
2241884	Y	[REDACTED]	Northwestern University
2241885	N	[REDACTED]	Harvard College, President & Fellows of Harvard University
2241886	N	[REDACTED]	Rutgers, The State University of New Jersey
2241887	N	[REDACTED]	Northeastern University

NSF CONTACT INFORMATION

Managing Grants

Official (Primary Contact)

Name: Tyffani N. Smith

Email: tnsmith@nsf.gov

Phone: (703) 292-7046

Awarding Official

Name: Willie M. Powell

Email: wpowell@nsf.gov

Managing Program Officer

Name: Brian Crisp

Email: bcrisp@nsf.gov

Phone: (703) 292-7951

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended

(42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 01/30/2023, available at <https://www.nsf.gov/awards/managing/rte.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

BUDGET

A. Senior Personnel	
Senior Personnel Count	2.00
Senior Personnel Calendar Months	0.50
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$13,687
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	0.00
Graduate Students Amount	\$0
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	

Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$13,687
C. Fringe Benefits	\$3,025
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$16,712
D. Equipment	\$0
E. Travel	
Domestic	\$0
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$179,838
Computer Services	\$0
Subawards	\$0
Other	\$0
<i>Total Other Direct Costs (G)</i>	\$179,838
H. Total Direct Costs (A Through G)	\$196,550
I. Indirect Costs*	\$135,619
J. Total Direct and Indirect Costs (H + I)	\$332,169
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$332,169
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2243704

Managing Division Abbreviation: MCB

Amendment Number: 000

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE 5TH FL CAMBRIDGE, MA 02138-5369

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 03/06/2023

Amendment Number: 000

Proposal Number: 2243704

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above as modified by revised budget dated 12/09/2022.

AWARD INFORMATION

Award Number (FAIN): 2243704

Award Instrument: Standard Grant

Award Date: 03/06/2023

Award Period of Performance: Start Date: 03/15/2023 End Date: 02/29/2028

Project Title: Collaborative Research: Ideas Lab: Discovery of Novel Functional RNA Classes by Computational Integration of Massively-Parallel RBP Binding and Structure Data

Managing Division Abbreviation: MCB

Research and Development Award: Yes

Funding Opportunity: NSF 22-510 Dark Dimensions of the RNA Regulome

Assistance Listing Number(s) and Name(s): 47.074 Biological Sciences (Predominant source of funding for SEFA reporting)

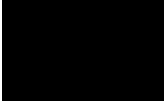
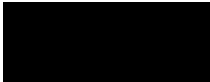
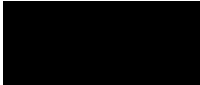
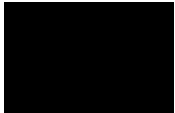
FUNDING INFORMATION

Amount Obligated by this Amendment: \$932,563
Total Intended Award Amount: \$932,563
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$932,563
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator: 	Email: 	Organization: PRESIDENT AND FELLOWS OF HARVARD COLLEGE
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COLLABORATIVE INFORMATION

Proposal ID	Lead	PI Name	Organization
2243703	Y		Oregon State University
2243704	N		Harvard College, President & Fellows of Harvard University
2243705	N		California Institute of Technology
2243706	N		GA Tech Research Corporation, GA Institute of Technology

NSF CONTACT INFORMATION

Managing Grants

Official (Primary Contact)
Name: Staci Jenkins
Email:
 sjenkins@nsf.gov
Phone: (703) 292-5042

Awarding Official
Name: Staci Jenkins
Email: sjenkins@nsf.gov

Managing Program Officer
Name: Stephen DiFazio
Email: sdifazio@nsf.gov
Phone: (703) 292-4517

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and

NSF Agency Specific Requirements, dated 01/30/2023, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 22-510 Dark Dimensions of the RNA Regulome.

BUDGET

A. Senior Personnel	
Senior Personnel Count	5.00
Senior Personnel Calendar Months	1.75
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$26,318
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	5.00
Post Doctoral Calendar Months	60.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$345,094
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	0.00
Graduate Students Amount	\$0
Undergraduate Students	
Undergraduate Students Count	10.00
Undergraduate Students Amount	\$80,275

Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$451,687
C. Fringe Benefits	\$93,125
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$544,812
D. Equipment	\$0
E. Travel	
Domestic	\$3,000
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$4,000
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$0
<i>Total Other Direct Costs (G)</i>	\$4,000
H. Total Direct Costs (A Through G)	\$551,812
I. Indirect Costs*	\$380,751
J. Total Direct and Indirect Costs (H + I)	\$932,563
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$932,563
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2243724

Managing Division Abbreviation: CHE

Amendment Number: 000

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE 5TH FL CAMBRIDGE, MA 02138-5369

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: Renewal

Amendment Date: 08/14/2023

Amendment Number: 000

Proposal Number: 2243724

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above as modified by revised budget dated 06/22/2023.

AWARD INFORMATION

Award Number (FAIN): 2243724

Award Instrument: Standard Grant

Award Date: 08/14/2023

Award Period of Performance: Start Date: 09/01/2023 End Date: 08/31/2026

Project Title: Photoactivation of Stable Bonds for Chemical Conversions

Managing Division Abbreviation: CHE

Research and Development Award: Yes

Funding Opportunity: NSF 22-605 Division of Chemistry: Disciplinary Research Programs

Assistance Listing Number(s) and Name(s): 47.049 Mathematical and Physical Sciences
(Predominant source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$700,000

Total Intended Award Amount: \$700,000
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$700,000
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator:

Email:

Organization: PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE

NSF CONTACT INFORMATION

Managing Grants Official

(Primary Contact)

Name: Pamela V. Conyers

Email: pconyers@nsf.gov

Phone: (703) 292-5329

Awarding Official

Name: Pamela V. Conyers

Email: pconyers@nsf.gov

Managing Program Officer

Name: Paul Blakemore

Email: pblakemo@nsf.gov

Phone: (703) 292-2726

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 01/30/2023, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 22-605 Division of Chemistry: Disciplinary Research Programs.

BUDGET

A. Senior Personnel	
Senior Personnel Count	3.00
Senior Personnel Calendar Months	0.75
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$35,134
B. Other Personnel	

Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	4.00
Graduate Students Amount	\$209,470
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$244,604
C. Fringe Benefits	\$7,554
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$252,158
D. Equipment	\$0
E. Travel	
Domestic	\$0
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00

<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$75,000
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$117,016
<i>Total Other Direct Costs (G)</i>	\$192,016
H. Total Direct Costs (A Through G)	\$444,174
I. Indirect Costs*	\$255,826
J. Total Direct and Indirect Costs (H + I)	\$700,000
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$700,000
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2245246

Managing Division Abbreviation: DMR

Amendment Number: 000

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE 5TH FL CAMBRIDGE, MA 02138-5369

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: Renewal

Amendment Date: 03/06/2023

Amendment Number: 000

Proposal Number: 2245246

Amendment Description:

The National Science Foundation hereby awards a Continuing Grant for support of the project described in the proposal referenced above as modified by revised budget dated 02/27/2023.

Fiscal Year 2023 and 2024 budgets have been combined in this award. It is still the grantee's responsibility to submit an annual project report in accordance with the award terms and conditions.

AWARD INFORMATION

Award Number (FAIN): 2245246

Award Instrument: Continuing Grant

Award Date: 03/06/2023

Award Period of Performance: Start Date: 09/01/2023 End Date: 08/31/2027

Project Title: Strange metals and the phases of quantum materials

Managing Division Abbreviation: DMR

Research and Development Award: Yes

Funding Opportunity: NSF 22-610 Condensed Matter and Materials Theory

Assistance Listing Number(s) and Name(s): 47.049 Mathematical and Physical Sciences
(Predominant source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$330,000
Total Intended Award Amount: \$660,000
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$330,000
Expenditure Limitation: Not Applicable

Contingent on the availability of funds and scientific progress of the project, NSF expects to continue support at approximately the following level:

Fiscal Year	Increment Amount
2025	\$165,000
2026	\$165,000

PROJECT PERSONNEL

Principal Investigator: [REDACTED]

Email: [REDACTED]

Organization:
 PRESIDENT AND
 FELLOWS OF
 HARVARD COLLEGE

NSF CONTACT INFORMATION

Managing Grants Official

(Primary Contact)

Name: Elizabeth

Gebremedhin

Email: egebreme@nsf.gov

Phone: (703) 292-4444

Awarding Official

Name: Elizabeth Gebremedhin

Email: egebreme@nsf.gov

Managing Program Officer

Name: Serdar Ogut

Email: sogut@nsf.gov

Phone: (703) 292-4429

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 01/30/2023, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 22-610 Condensed Matter and Materials Theory.

BUDGET

A. Senior Personnel

Senior Personnel Count	2.00
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Senior Personnel Calendar Months	0.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$0
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	1.00
Post Doctoral Calendar Months	11.50
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$66,010
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	1.00
Graduate Students Amount	\$89,040
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$155,050
C. Fringe Benefits	\$16,701
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$171,751
D. Equipment	\$0
E. Travel	
Domestic	\$0
International	\$0
F. Participant Support Costs	

Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$39,741
<i>Total Other Direct Costs (G)</i>	\$39,741
H. Total Direct Costs (A Through G)	\$211,492
I. Indirect Costs*	\$118,508
J. Total Direct and Indirect Costs (H + I)	\$330,000
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$330,000
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

From: aklirono@nsf.gov
Reply To: aklirono@nsf.gov
To: [REDACTED]
CC: aklirono@nsf.gov; nodom@nsf.gov
Subject: NSF Approval of Continuing Grant Increment - Award ID - 2245246
Status: Sent on Fri 02/28/2025 03:45 PM

Notification of NSF Approval of Additional Funding Support

Award No. 2245246
Amendment No. 001
Division Identifier: DMR
Release Date: 02/28/2025
Released By: Alexios Klironomos
Amount: \$165,000
Award End Date: 08/31/2027

As authorized by the original award, the National Science Foundation hereby releases \$165,000 for additional support of the award referenced above. The award, with this amendment, now totals \$495,000 and will end on 08/31/2027 .

The attached budget indicates the amounts, by categories, on which NSF has based its continued support.

This award is subject to the terms and conditions referenced in the original award notice. The most current version of the terms and conditions can be accessed at: https://www.nsf.gov/awards/managing/award_conditions.jsp?org_NSF.

This award is subject to the Uniform Administrative Requirements, Cost Principles and Audit Requirements for Federal Awards (Uniform Guidance). NSF's implementation of the Uniform Guidance is contained in the Grant Conditions referenced in this award.

Any technical or programmatic questions regarding this notification should be addressed to the cognizant NSF Program Officer: Alexios Klironomos , aklirono@nsf.gov , (703)292-4920 .

Any award specific questions of an administrative or financial nature should be addressed to the grants official at <http://www.nsf.gov/bfa/dga/docs/liaison.pdf> . The cognizant grants official can be identified by associating the three-letter division identifier referenced above with the grants official for that division on the liaison website.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2246518

Managing Division Abbreviation: DMS

Amendment Number: 000

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE 5TH FL CAMBRIDGE, MA 02138-5369

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 03/24/2023

Amendment Number: 000

Proposal Number: 2246518

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above.

AWARD INFORMATION

Award Number (FAIN): 2246518

Award Instrument: Standard Grant

Award Date: 03/24/2023

Award Period of Performance: Start Date: 07/01/2023 End Date: 06/30/2026

Project Title: Positive Vector Bundles in Combinatorics

Managing Division Abbreviation: DMS

Research and Development Award: Yes

Funding Opportunity: PD 18-7970 Combinatorics

Assistance Listing Number(s) and Name(s): 47.049 Mathematical and Physical Sciences
(Predominant source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$202,319

Total Intended Award Amount: \$202,319
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$202,319
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator:

Email:

Organization: PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE

NSF CONTACT INFORMATION

Managing Grants Official
(Primary Contact)

Name: Lynda Kummelt

Email: lkummelt@nsf.gov

Phone: (703) 292-7721

Awarding Official

Name: Lynda Kummelt

Email: lkummelt@nsf.gov

Managing Program Officer

Name: Stefaan Guido De Winter

Email: sgdwint@nsf.gov

Phone: (703) 292-2599

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 01/30/2023, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

BUDGET

A. Senior Personnel	
Senior Personnel Count	3.00
Senior Personnel Calendar Months	0.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	6.00
Senior Personnel Amount	\$59,963
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00

Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	0.00
Graduate Students Amount	\$0
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$59,963
C. Fringe Benefits	\$13,252
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$73,215
D. Equipment	\$0
E. Travel	
Domestic	\$22,500
International	\$24,000
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	

Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$0
<i>Total Other Direct Costs (G)</i>	\$0
H. Total Direct Costs (A Through G)	\$119,715
I. Indirect Costs*	\$82,604
J. Total Direct and Indirect Costs (H + I)	\$202,319
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$202,319
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2246630

Managing Division Abbreviation: DMS

Amendment Number: 000

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE 5TH FL CAMBRIDGE, MA 02138-5369

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 03/30/2023

Amendment Number: 000

Proposal Number: 2246630

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above as modified by revised budget dated 03/14/2023.

AWARD INFORMATION

Award Number (FAIN): 2246630

Award Instrument: Standard Grant

Award Date: 03/30/2023

Award Period of Performance: Start Date: 07/01/2023 End Date: 06/30/2026

Project Title: Bifurcations in Complex Algebraic Dynamics

Managing Division Abbreviation: DMS

Research and Development Award: Yes

Funding Opportunity: PD 20-1281 Analysis

Assistance Listing Number(s) and Name(s): 47.049 Mathematical and Physical Sciences
(Predominant source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$446,934

Total Intended Award Amount: \$446,934
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$446,934
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator: [REDACTED] **Email:** [REDACTED]
Organization:
 PRESIDENT AND
 FELLOWS OF HARVARD
 COLLEGE

NSF CONTACT INFORMATION

Managing Grants Official
 (Primary Contact)
Name: Lynda Kummelt
Email: lkummelt@nsf.gov
Phone: (703) 292-7721

Awarding Official
Name: Aprile N Roberson
Email: aroberso@nsf.gov

Managing Program Officer
Name: Jeremy Tyson
Email: jtyson@nsf.gov
Phone: (703) 292-7210

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 01/30/2023, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

BUDGET

A. Senior Personnel	
Senior Personnel Count	3.00
Senior Personnel Calendar Months	0.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	4.50
Senior Personnel Amount	\$148,517
B. Other Personnel	
Post Doctoral Scholars	

Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	3.00
Graduate Students Amount	\$53,118
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$201,635
C. Fringe Benefits	\$32,823
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$234,458
D. Equipment	\$0
E. Travel	
Domestic	\$15,000
International	\$15,000
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0

G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$0
<i>Total Other Direct Costs (G)</i>	\$0
H. Total Direct Costs (A Through G)	\$264,458
I. Indirect Costs*	\$182,476
J. Total Direct and Indirect Costs (H + I)	\$446,934
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$446,934
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2246746

Managing Division Abbreviation: DMS

Amendment Number: 000

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE 5TH FL CAMBRIDGE, MA 02138-5369

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 03/28/2023

Amendment Number: 000

Proposal Number: 2246746

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above.

AWARD INFORMATION

Award Number (FAIN): 2246746

Award Instrument: Standard Grant

Award Date: 03/28/2023

Award Period of Performance: Start Date: 07/01/2023 End Date: 06/30/2026

Project Title: Classification and invariants for Borel equivalence relations

Managing Division Abbreviation: DMS

Research and Development Award: Yes

Funding Opportunity: PD 18-1268 Foundations

Assistance Listing Number(s) and Name(s): 47.049 Mathematical and Physical Sciences
(Predominant source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$163,146

Total Intended Award Amount: \$163,146
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$163,146
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator: [REDACTED] **Email:** [REDACTED] **Organization:** PRESIDENT AND FELLOWS OF HARVARD COLLEGE

NSF CONTACT INFORMATION

Managing Grants Official
 (Primary Contact)
Name: Lynda Kummelt
Email: lkummelt@nsf.gov
Phone: (703) 292-7721

Awarding Official
Name: Lynda Kummelt
Email: lkummelt@nsf.gov

Managing Program Officer
Name: Tomek Bartoszynski
Email: tbartosz@nsf.gov
Phone: (703) 292-4885

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 01/30/2023, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

BUDGET

A. Senior Personnel	
Senior Personnel Count	3.00
Senior Personnel Calendar Months	0.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	6.00
Senior Personnel Amount	\$62,683
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00

Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	0.00
Graduate Students Amount	\$0
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$62,683
C. Fringe Benefits	\$13,853
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$76,536
D. Equipment	\$0
E. Travel	
Domestic	\$13,500
International	\$6,000
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	

Materials Supplies	\$500
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$0
<i>Total Other Direct Costs (G)</i>	\$500
H. Total Direct Costs (A Through G)	\$96,536
I. Indirect Costs*	\$66,610
J. Total Direct and Indirect Costs (H + I)	\$163,146
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$163,146
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2246746

Managing Division
Abbreviation: DMS

Amendment Number: 001

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE
Recipient Address: 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366
Official Recipient Email Address: [REDACTED]
Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: Other Admin No Fund Actions
Amendment Date: 10/17/2023
Amendment Number: 001
Proposal Number: Not Applicable
Amendment Description:

The purpose of this amendment is to change the PI or co-PI in accordance with the Change PI and Add/Change Co-PI request submitted on 10/13/2023. Effective with this amendment, the project is now under the direction of [REDACTED]

Except as modified by this amendment, the award conditions remain unchanged.

PROJECT PERSONNEL

Principal Investigator:

Email:

Organization:
PRESIDENT AND
FELLOWS OF HARVARD
COLLEGE

NSF CONTACT INFORMATION

Managing Grants Official
(Primary Contact)
Name: Lynda Kummelt

Awarding Official
Name: Lynda Kummelt
Email: lkummelt@nsf.gov

Managing Program Officer
Name: Tomek

Email: lkummelt@nsf.gov

Phone: (703) 292-7721

Bartoszynski

Email: tbartosz@nsf.gov

Phone: (703) 292-4885

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2247494

Managing Division Abbreviation: CHE

Amendment Number: 000

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE 5TH FL CAMBRIDGE, MA 02138-5369

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 07/12/2023

Amendment Number: 000

Proposal Number: 2247494

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above as modified by revised budget dated 06/08/2023.

AWARD INFORMATION

Award Number (FAIN): 2247494

Award Instrument: Standard Grant

Award Date: 07/12/2023

Award Period of Performance: Start Date: 09/01/2023 End Date: 08/31/2026

Project Title: Screening for Generality in Asymmetric Catalysis

Managing Division Abbreviation: CHE

Research and Development Award: Yes

Funding Opportunity: NSF 22-605 Division of Chemistry: Disciplinary Research Programs

Assistance Listing Number(s) and Name(s): 47.049 Mathematical and Physical Sciences
(Predominant source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$575,000

Total Intended Award Amount: \$575,000
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$575,000
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator:

Email:

Organization: PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE

NSF CONTACT INFORMATION

Managing Grants

Official (Primary Contact)

Name: Pamela V. Conyers

Email: pconyers@nsf.gov

Phone: (703) 292-5329

Awarding Official

Name: Pamela V. Conyers

Email: pconyers@nsf.gov

Managing Program Officer

Name: Paul Blakemore

Email: pblakemo@nsf.gov

Phone: (703) 292-2726

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 01/30/2023, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 22-605 Division of Chemistry: Disciplinary Research Programs.

BUDGET

A. Senior Personnel	
Senior Personnel Count	3.00
Senior Personnel Calendar Months	1.50
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$50,242
B. Other Personnel	

Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	3.00
Graduate Students Amount	\$136,021
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$186,263
C. Fringe Benefits	\$10,802
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$197,065
D. Equipment	\$9,945
E. Travel	
Domestic	\$0
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00

<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$78,346
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$83,423
<i>Total Other Direct Costs (G)</i>	\$161,769
H. Total Direct Costs (A Through G)	\$368,779
I. Indirect Costs*	\$206,221
J. Total Direct and Indirect Costs (H + I)	\$575,000
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$575,000
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2247817

Managing Division Abbreviation: CHE

Amendment Number: 000

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE 5TH FL CAMBRIDGE, MA 02138-5369

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: Renewal

Amendment Date: 07/05/2023

Amendment Number: 000

Proposal Number: 2247817

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above.

AWARD INFORMATION

Award Number (FAIN): 2247817

Award Instrument: Standard Grant

Award Date: 07/05/2023

Award Period of Performance: Start Date: 07/15/2023 End Date: 06/30/2026

Project Title: CAS: Collaborative Research: Electronic Structure/Function Relationships Underpinning Atom Transfer Reactivity

Managing Division Abbreviation: CHE

Research and Development Award: Yes

Funding Opportunity: NSF 22-605 Division of Chemistry: Disciplinary Research Programs

Assistance Listing Number(s) and Name(s): 47.049 Mathematical and Physical Sciences
(Predominant source of funding for SEFA reporting)

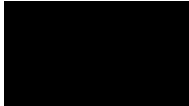
FUNDING INFORMATION

Amount Obligated by this Amendment: \$361,035
Total Intended Award Amount: \$361,035
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$361,035
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator: 	Email: 	Organization: PRESIDENT AND FELLOWS OF HARVARD COLLEGE
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COLLABORATIVE INFORMATION

Proposal ID	Lead	PI Name	Organization
2247817	Y		Harvard College, President & Fellows of Harvard University
2247818	N		Cornell University

NSF CONTACT INFORMATION

Managing Grants

Official (Primary

Contact)

Name: Pamela V.

Conyers

Email:

pconyers@nsf.gov

Phone: (703) 292-5329

Awarding Official

Name: Pamela V. Conyers

Email: pconyers@nsf.gov

Managing Program Officer

Name: Tingyu Li

Email: tli@nsf.gov

Phone: (703) 292-4949

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 01/30/2023, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 22-605 Division of Chemistry: Disciplinary Research Programs.

BUDGET

A. Senior Personnel	
Senior Personnel Count	3.00
Senior Personnel Calendar Months	0.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$0
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	3.00
Graduate Students Amount	\$135,567
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	<i>\$135,567</i>

C. Fringe Benefits	\$0
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$135,567
D. Equipment	\$0
E. Travel	
Domestic	\$6,182
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$27,818
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$68,069
<i>Total Other Direct Costs (G)</i>	\$95,887
H. Total Direct Costs (A Through G)	\$237,636
I. Indirect Costs*	\$123,399
J. Total Direct and Indirect Costs (H + I)	\$361,035
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$361,035
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2301180

Managing Division Abbreviation: DRL

Amendment Number:
000

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE 5TH FL CAMBRIDGE, MA 02138-5369

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 07/16/2023

Amendment Number: 000

Proposal Number: 2301180

Amendment Description:

The National Science Foundation hereby awards a Continuing Grant for support of the project described in the proposal referenced above.

The ECR program has a resource coordination hub that is responsible for synthesizing findings across the ECR portfolio, providing technical assistance to ECR projects, promoting national awareness of research contributions from the ECR portfolio, and building the ECR community through PI and special interest meetings. All ECR projects are expected to share their findings with the resource coordination hub, to participate in biennial PI meetings, and other meetings of interest and to be responsive to requests for information from the resource coordination hub. If additional information is needed, contact the cognizant NSF Program Officer.

Fiscal Year 2023 and 2024 budgets have been combined in this award. It is still the grantee's responsibility to submit an annual project report in accordance with the award terms and conditions.

It is the grantee's responsibility to ensure that any human subjects work conducted under this award has an Institutional Review Board (IRB) approval, where required, and that such approval remains valid at all times that human subjects work is conducted under the award. Failure to comply with this condition will result in suspension and/or termination of the award.

The Foundation authorizes the awardee to enter into the proposed subaward arrangement. The subaward agreement should contain appropriate provisions in accordance with the award terms and conditions in effect at the time of this award amendment, and contain any special conditions included in this award.

Incentive payments or gifts to participants must be made in accordance with written institutional policies and procedures and supported by auditable documentation. The allowability of these costs will ultimately be based on the awardee institution's ability to adequately demonstrate that the incentives have been disbursed in accordance with its policies and procedures.

AWARD INFORMATION

Award Number (FAIN): 2301180

Award Instrument: Continuing Grant

Award Date: 07/16/2023

Award Period of Performance: Start Date: 08/01/2023 End Date: 07/31/2028

Project Title: Cognitive Mechanisms of Guided Instruction in the Early Elementary Years

Managing Division Abbreviation: DRL

Research and Development Award: Yes

Funding Opportunity: NSF 21-588 EHR Core Research

Assistance Listing Number(s) and Name(s): 47.076 Education and Human Resources (Predominant source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$655,096

Total Intended Award Amount: \$1,500,000

Total Approved Cost Share or Matching Amount: \$0

Total Amount Obligated to Date: \$655,096

Expenditure Limitation: Not Applicable

Contingent on the availability of funds and scientific progress of the project, NSF expects to continue support at approximately the following level:

Fiscal Year	Increment Amount
2025	\$376,538
2026	\$355,860
2027	\$112,506

PROJECT PERSONNEL

Principal Investigator:

[REDACTED]

Email:

[REDACTED]

Organization:
PRESIDENT AND
FELLOWS OF
HARVARD COLLEGE

co-Principal Investigator:

[REDACTED]

Email:

[REDACTED]

Organization:
RUTGERS, THE
STATE UNIVERSITY
OF NEW JERSEY

co-Principal Investigator:**Email:****Organization:**UNIVERSITY OF
CALIFORNIA, SAN
DIEGO**co-Principal Investigator:****Email:****Organization:**PRESIDENT AND
FELLOWS OF
HARVARD COLLEGE**NSF CONTACT INFORMATION****Managing Grants Official**

(Primary Contact)

Name: Cartia Brown-
Morgan**Email:**

cbrownmo@nsf.gov

Phone: (703) 292-8709**Awarding Official****Name:** Angela A. Turner**Email:** aturner@nsf.gov**Managing Program
Officer****Name:** Michael Ford**Email:** miford@nsf.gov**Phone:** (703) 292-5153**GENERAL TERMS AND CONDITIONS**

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 01/30/2023, available at <https://www.nsf.gov/awards/managing rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 21-588 EHR Core Research.

BUDGET**A. Senior Personnel**

Senior Personnel Count	4.00
Senior Personnel Calendar Months	24.40
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$160,244

B. Other Personnel**Post Doctoral Scholars**

Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	1.00
Other Professionals Calendar Months	5.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$21,029
Graduate Students	
Graduate Students Count	1.00
Graduate Students Amount	\$11,240
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	2.00
Other Amount	\$500
<i>Total Salaries and Wages (A+B)</i>	\$193,013
C. Fringe Benefits	\$53,055
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$246,068
D. Equipment	\$0
E. Travel	
Domestic	\$3,038
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0

G. Other Direct Costs	
Materials Supplies	\$1,600
Publication Costs	\$1,500
Consultant Services	\$0
Computer Services	\$0
Subawards	\$190,214
Other	\$4,500
<i>Total Other Direct Costs (G)</i>	\$197,814
H. Total Direct Costs (A Through G)	\$446,920
I. Indirect Costs*	\$208,176
J. Total Direct and Indirect Costs (H + I)	\$655,096
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$655,096
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2301180

Managing Division Abbreviation: DRL

Amendment Number:
001

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: Frwd Funded

Amendment Date: 09/18/2024

Amendment Number: 001

Proposal Number: 2450422

Amendment Description:

The purpose of this amendment is to forward fund scheduled incremental funding to the award in the amount shown below in the Funding Information section.

This amendment includes funds that were originally scheduled to be released in a future fiscal year. It is still the grantee's responsibility to submit an annual project report for each year in accordance with the NSF policies.

Except as modified by this amendment, the award conditions remain unchanged.

AWARD INFORMATION

Award Number (FAIN): 2301180

Award Instrument: Continuing Grant

Award Date: 07/16/2023

Award Period of Performance: Start Date: 08/01/2023 End Date: 07/31/2028

Project Title: Cognitive Mechanisms of Guided Instruction in the Early Elementary Years

Managing Division Abbreviation: DRL

Research and Development Award: Yes

Funding Opportunity: NSF 21-588 EDU Core Research

Assistance Listing Number(s) and Name(s): 47.076 Education and Human Resources (See Amendment 000 for source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$376,538
Total Intended Award Amount: \$1,500,000
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$1,031,634

PROJECT PERSONNEL**Principal Investigator:**

[REDACTED]

Email:

[REDACTED]

Organization:
 PRESIDENT AND
 FELLOWS OF
 HARVARD COLLEGE

co-Principal Investigator:

[REDACTED]

Email:

[REDACTED]

Organization:
 RUTGERS, THE STATE
 UNIVERSITY

co-Principal Investigator:

[REDACTED]

Email:

[REDACTED]

Organization:
 UNIVERSITY OF
 CALIFORNIA, SAN
 DIEGO

co-Principal Investigator:

[REDACTED]

Email:

[REDACTED]

Organization:
 PRESIDENT AND
 FELLOWS OF
 HARVARD COLLEGE

NSF CONTACT INFORMATION**Managing Grants**

Official (Primary
Contact)

Name: Tracy N. Shields**Email:** tshields@nsf.gov**Phone:** (703) 292-4882**Awarding Official****Name:** Denise M. Martin**Email:** dmartin@nsf.gov**Managing Program Officer****Name:** Michael Ford**Email:** miford@nsf.gov**Phone:** (703) 292-5153**GENERAL TERMS AND CONDITIONS**

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/20/2024, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

BUDGET

A. Senior Personnel	
Senior Personnel Count	2.00
Senior Personnel Calendar Months	12.20
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$83,745
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	1.00
Graduate Students Amount	\$12,770
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	1.00
Other Amount	\$250
<i>Total Salaries and Wages (A+B)</i>	\$96,765
C. Fringe Benefits	\$22,384
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$119,149
D. Equipment	\$0

E. Travel	
Domestic	\$2,925
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$3,000
Consultant Services	\$0
Computer Services	\$0
Subawards	\$152,839
Other	\$5,250
<i>Total Other Direct Costs (G)</i>	\$161,089
H. Total Direct Costs (A Through G)	\$283,163
I. Indirect Costs*	\$93,375
J. Total Direct and Indirect Costs (H + I)	\$376,538
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$376,538
M. Cost Sharing Proposed Level	\$0

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2301246

Managing Division Abbreviation: DRL

Amendment Number: 000

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE 5TH FL CAMBRIDGE, MA 02138-5369

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 04/29/2023

Amendment Number: 000

Proposal Number: 2301246

Amendment Description:

The National Science Foundation hereby awards a Continuing Grant for support of the project described in the proposal referenced above.

Fiscal Year 2023 and 2024 budgets have been combined in this award. It is still the grantee's responsibility to submit an annual project report in accordance with the award terms and conditions.

No work with human subjects, including recruitment, may be conducted under this protocol or grant until IRB approval has been obtained.

AWARD INFORMATION

Award Number (FAIN): 2301246

Award Instrument: Continuing Grant

Award Date: 04/29/2023

Award Period of Performance: Start Date: 05/01/2023 End Date: 04/30/2026

Project Title: Collaborative Research: Promoting Math Skills through Playful Communication in the Home Environment

Managing Division Abbreviation: DRL

Research and Development Award: Yes

Funding Opportunity: NSF 21-588 EHR Core Research

Assistance Listing Number(s) and Name(s): 47.076 Education and Human Resources (Predominant source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$137,579
Total Intended Award Amount: \$216,238
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$137,579
Expenditure Limitation: Not Applicable

Contingent on the availability of funds and scientific progress of the project, NSF expects to continue support at approximately the following level:

Fiscal Year	Increment Amount
2025	\$78,659

PROJECT PERSONNEL**Principal Investigator:****Email:**

Organization: PRESIDENT AND
 FELLOWS OF HARVARD
 COLLEGE

COLLABORATIVE INFORMATION

Proposal ID	Lead	PI Name	Organization
2301245	Y		University of Maryland
2301246	N		Harvard College, President & Fellows of Harvard University

NSF CONTACT INFORMATION**Managing Grants**

Official (Primary
 Contact)

Name: Cartia Brown-
 Morgan

Email:
 cbrownmo@nsf.gov

Phone: (703) 292-8709

Awarding Official

Name: Angela A. Turner
Email: aturner@nsf.gov

Managing Program Officer

Name: Eric Knuth
Email: eknuth@nsf.gov
Phone:

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended

(42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 01/30/2023, available at <https://www.nsf.gov/awards/managing/rte.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 21-588 EHR Core Research.

BUDGET

A. Senior Personnel	
Senior Personnel Count	2.00
Senior Personnel Calendar Months	2.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$42,521
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	2.00
Graduate Students Amount	\$26,833
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0

Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$69,354
C. Fringe Benefits	\$12,054
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$81,408
D. Equipment	\$0
E. Travel	
Domestic	\$0
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$0
<i>Total Other Direct Costs (G)</i>	\$0
H. Total Direct Costs (A Through G)	\$81,408
I. Indirect Costs*	\$56,171
J. Total Direct and Indirect Costs (H + I)	\$137,579
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$137,579
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

From: eknuth@nsf.gov
Reply To: eknuth@nsf.gov
To: [REDACTED]
CC: eknuth@nsf.gov; adapedo@nsf.gov
Subject: NSF Approval of Continuing Grant Increment - Award ID - 2301246
Status: Sent on Mon 02/24/2025 02:06 PM

Notification of NSF Approval of Additional Funding Support

Award No. 2301246
Amendment No. 001
Division Identifier: DRL
Release Date: 02/24/2025
Released By: Eric Knuth
Amount: \$78,659
Award End Date: 04/30/2026

As authorized by the original award, the National Science Foundation hereby releases \$78,659 for additional support of the award referenced above. The award, with this amendment, now totals \$216,238 and will end on 04/30/2026 .

The attached budget indicates the amounts, by categories, on which NSF has based its continued support.

This award is subject to the terms and conditions referenced in the original award notice. The most current version of the terms and conditions can be accessed at: https://www.nsf.gov/awards/managing/award_conditions.jsp?org_NSF.

This award is subject to the Uniform Administrative Requirements, Cost Principles and Audit Requirements for Federal Awards (Uniform Guidance). NSF's implementation of the Uniform Guidance is contained in the Grant Conditions referenced in this award.

Any technical or programmatic questions regarding this notification should be addressed to the cognizant NSF Program Officer: Eric Knuth , eknuth@nsf.gov , (703)292-8402 .

Any award specific questions of an administrative or financial nature should be addressed to the grants official at <http://www.nsf.gov/bfa/dga/docs/liaison.pdf> . The cognizant grants official can be identified by associating the three-letter division identifier referenced above with the grants official for that division on the liaison website.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2303486

Managing Division Abbreviation: OCE

Amendment Number: 000

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE 5TH FL CAMBRIDGE, MA 02138-5369

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 06/22/2023

Amendment Number: 000

Proposal Number: 2303486

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above.

AWARD INFORMATION

Award Number (FAIN): 2303486

Award Instrument: Standard Grant

Award Date: 06/22/2023

Award Period of Performance: Start Date: 07/01/2023 End Date: 06/30/2026

Project Title: Warm Pliocene mid-latitude upwelling sites, with implications to future southwestern North America aridity under climate change

Managing Division Abbreviation: OCE

Research and Development Award: Yes

Funding Opportunity: NSF 22-612 Paleo Perspectives on Present and Projected Climate

Assistance Listing Number(s) and Name(s): 47.050 Geosciences (Predominant source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$449,535
Total Intended Award Amount: \$449,535
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$449,535
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator: [REDACTED]

Email: [REDACTED]

Organization: PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE

NSF CONTACT INFORMATION

Managing Grants Official

(Primary Contact)

Name: Willie M. Powell

Email: wpowell@nsf.gov

Phone: (703) 292-4583

Awarding Official

Name: Willie M. Powell

Email: wpowell@nsf.gov

Managing Program Officer

Name: Joseph Carlin

Email: jcarlin@nsf.gov

Phone: (703) 292-8562

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 01/30/2023, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 22-612 Paleo Perspectives on Present and Projected Climate.

BUDGET

A. Senior Personnel	
Senior Personnel Count	3.00
Senior Personnel Calendar Months	2.04
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$58,307

B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	3.00
Graduate Students Amount	\$135,622
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$193,929
C. Fringe Benefits	\$12,886
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$206,815
D. Equipment	\$5,000
E. Travel	
Domestic	\$13,503
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0

Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$15,000
Consultant Services	\$0
Computer Services	\$9,000
Subawards	\$0
Other	\$28,188
<i>Total Other Direct Costs (G)</i>	\$52,188
H. Total Direct Costs (A Through G)	\$277,506
I. Indirect Costs*	\$172,029
J. Total Direct and Indirect Costs (H + I)	\$449,535
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$449,535
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
F&A	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2303681

Managing Division Abbreviation: TI

Amendment Number: 000

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE 5TH FL CAMBRIDGE, MA 02138-5369

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 08/08/2023

Amendment Number: 000

Proposal Number: 2303681

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above as modified by revised budget dated 04/14/2023, and email dated 06/07/2023.

Funds provided for participant support may not be diverted by the awardee to other categories of expense without the prior written approval of the cognizant NSF Program Officer. Since participant support cost is not a normal account classification, the awardee organization must be able to separately identify participant support costs. It is highly recommended that separate accounts, sub-accounts, sub-task, or sub-ledgers be established to accumulate these costs. The awardee should have written policies and procedures to segregate participant support costs.

Costs of entertainment, amusement, diversion and social activities, and any costs directly associated with such activities (such as meals, lodging, rentals, transportation and gratuities) are unallowable.

When certain meals are an integral and necessary part of a conference or meeting (i.e., working meals where business is transacted), grant funds may be used for such meals. Grant funds may also be used to furnish a reasonable amount of coffee or soft drinks for conference or meeting participants and attendees during coffee breaks.

No NSF funds may be spent on meals or coffee breaks for intramural meetings of an organization or any of its components, including, but not limited to, laboratories, departments and centers.

Funds provided by this award include support for "Research Experiences for Undergraduates" in accordance with the NSF program solicitation NSF 22-601.

AWARD INFORMATION**Award Number (FAIN):** 2303681**Award Instrument:** Standard Grant**Award Date:** 08/08/2023**Award Period of Performance:** Start Date: 08/15/2023 End Date: 07/31/2025**Project Title:** POSE: Phase II: Building the Differential Privacy Ecosystem through OpenDP**Managing Division Abbreviation:** TI**Research and Development Award:** Yes**Funding Opportunity:** NSF 22-572 Pathways to Enable Open-Source Ecosystems**Assistance Listing Number(s) and Name(s):** 47.084 NSF Technology, Innovation and Partnerships
(Predominant source of funding for SEFA reporting)**FUNDING INFORMATION****Amount Obligated by this Amendment:** \$1,500,000**Total Intended Award Amount:** \$1,500,000**Total Approved Cost Share or Matching Amount:** \$0**Total Amount Obligated to Date:** \$1,500,000**Expenditure Limitation:** Not Applicable**PROJECT PERSONNEL****Principal Investigator:****Email:****Organization:** PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE**co-Principal Investigator:****Email:****Organization:** PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE**co-Principal Investigator:****Email:****Organization:** PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE**NSF CONTACT INFORMATION****Managing Grants Official**
(Primary Contact)**Name:** Austin Torretti**Email:** atorrett@nsf.gov**Phone:** (703) 292-4371**Awarding Official****Name:** Willis Phan**Email:** wiphan@nsf.gov**Managing Program Officer****Name:** Peter S. Atherton**Email:** patherto@nsf.gov**Phone:** (703) 292-8772**GENERAL TERMS AND CONDITIONS**

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 01/30/2023, available at <https://www.nsf.gov/awards/managing/rte.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 22-572 Pathways to Enable Open-Source Ecosystems.

BUDGET

A. Senior Personnel	
Senior Personnel Count	6.00
Senior Personnel Calendar Months	3.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$91,461
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	14.00
Other Professionals Calendar Months	58.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$471,925
Graduate Students	
Graduate Students Count	4.00
Graduate Students Amount	\$5,110
Undergraduate Students	